

IN THE CLAIMS:

Please cancel withdrawn claims 116 and 117.

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Previously Presented) A specific binding protein selected from the group consisting of a monoclonal antibody, a polyclonal antibody, an antigen-binding fragment of a monoclonal antibody, an antigen-binding fragment of a polyclonal antibody, a hybrid antibody, and a single chain antibody, which specifically binds to an isolated and purified peptide consisting essentially of SEQ ID NO:4.
7. (Canceled)
8. (Previously Presented) The specific binding protein of claim 15 wherein at least one amino acid substitution is an amino acid with an aromatic ring.
9. (Canceled)
10. (Canceled)
11. (Canceled)
12. (Canceled)
13. (Canceled)
14. (Canceled)
15. (Previously Presented) A specific binding protein selected from the group consisting of a monoclonal antibody, a polyclonal antibody, an antigen-binding fragment of a monoclonal antibody, an antigen-binding fragment of a polyclonal antibody, a hybrid antibody, and a single chain antibody which specifically binds an isolated and purified peptide comprising an amino acid sequence which consists essentially of Thr-Leu-Leu-Glu-Tyr-Arg-Met (SEQ ID NO:4), or a variant thereof, wherein the variant comprises an amino acid substitution at amino acid positions 3, 4, or both 3 and 4.

16. (Canceled)
17. (Canceled)
18. (Canceled)
19. (Canceled)
20. (Canceled)
21. (Previously Presented) A specific binding protein selected from the group consisting of a monoclonal antibody, a polyclonal antibody, an antigen-binding fragment of a monoclonal antibody, an antigen-binding fragment of a polyclonal antibody, a hybrid antibody, and a single chain antibody, which specifically binds an isolated and purified peptide comprising an amino acid sequence which consists essentially of Gly-Met-Asn-Leu-Thr-Trp-Tyr-Arg-Glu-Ser-Lys (SEQ ID NO:5), or a variant thereof, wherein the variant comprises an amino acid substitution at amino acid position number 5, 6, or both 5 and 6.
22. (Canceled)
23. (Canceled)
24. (Canceled)
25. (Canceled)
26. (Canceled)
27. (Previously Presented) A specific binding protein selected from the group consisting of a monoclonal antibody, a polyclonal antibody, an antigen-binding fragment of a monoclonal antibody, an antigen-binding fragment of a polyclonal antibody, a hybrid antibody, and a single chain antibody, which is raised to a multiply antigenic peptide comprising multiple copies of an isolated and purified peptide which consists essentially of SEQ ID NO:4, SEQ ID NO:5, or both SEQ ID NO:4 and SEQ ID NO:5.
28. (Canceled)
29. (Canceled)
30. (Canceled)
31. (Canceled)

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32. (Canceled)

33. (Canceled)

34. (Previously Presented) A specific binding protein selected from the group consisting of a monoclonal antibody, a polyclonal antibody, an antigen-binding fragment of a monoclonal antibody, an antigen-binding fragment of a polyclonal antibody, a hybrid antibody, and a single chain antibody, which is raised to a recombinant plant virus particle comprising at least one copy of an isolated and purified peptide comprising SEQ ID NO:4, SEQ ID NO:5, or both SEQ ID NO:4 and SEQ ID NO:5.

35. (Canceled)

36. (Canceled)

37. (Canceled)

38. (Canceled)

39. (Canceled)

40. (Canceled)

41. (Previously Presented) A monoclonal antibody produced by hybridoma 8H.8 having ATCC accession number PTA-4597.

42. (Canceled)

43. (Previously Presented) A specific binding protein selected from the group consisting of a monoclonal antibody, a polyclonal antibody, an antigen-binding fragment of a monoclonal antibody, an antigen-binding fragment of a polyclonal antibody, a hybrid antibody, and a single chain antibody, which specifically binds to an epitope bound by the antibody of claim 41.

44-117. Cancelled.